

Specifications.

BMW M5.

M5.



BMW M5		
Body		
No. of doors/seats		4 / 5
Length/width/height (unladen)	mm	4983 / 1903 / 1473
Wheelbase	mm	2982
Track, front/rear	mm	1626 / 1594
Ground clearance	mm	125
Turning circle	m	12.6
Tank capacity	approx. ltr	68
Engine oil ¹⁾	ltr	10.0
Weight, unladen, to DIN/EU	kg	1895 / 1970
Max. load to DIN	kg	545
Max. permissible weight	kg	2440
Max. axle load, front/rear	kg	1215 / 1260
Max. trailer load, braked (12%/unbraked)	kg	2000 / 750
Max. roof load/towbar download	kg	100 / 90
Luggage comp. capacity	ltr	530
Air resistance	C _d x A	0.31 x 2.42
Engine		
Config./No. of cyls./valves		V / 8 / 4
Engine technology		M TwinPower Turbo technology with cross-bank exhaust manifold, M TwinScroll TwinTurbo, indirect charge air cooling, High Precision Injection, maximum injection pressure 350 bar, VALVETRONIC fully variable valve timing, Double-VANOS variable camshaft timing
Effective capacity	cm ³	4395
Stroke/bore	mm	88.3 / 89.0
Compression ratio	:1	10.0
Fuel		RON 98 (min RON 91)
Output	kW/hp	441 / 600
at	rpm	6000
Torque	Nm	750
at	rpm	1800 – 5600
Electrical System		
Battery/Installation	Ah/–	70 (li-ion) / luggage comp.
Driving Dynamics and Safety		
Suspension, front		Adaptive M suspension with double wishbone axle in lightweight aluminium construction, M specific kinematics and elastokinematics
Suspension, rear		Adaptive M suspension with five-link axle in lightweight aluminium construction, M-specific elastokinematics
Brakes, front		M compound brakes, vented, with six-piston fixed callipers
Brakes, rear		M compound brakes, vented, with single-piston floating callipers
Driving stability systems		Standard: DSC incl. ABS, ASC and M Dynamic Mode (MDM), can be switched off, CBC (Cornering Brake Control), DBC (Dynamic Brake Control), Dry Braking function, Start-Off Assistant, Active M Differential, DSC linked with M xDrive allwheel drive
Safety equipment		Standard: airbags for driver and front passenger, side airbags for driver and front passenger, head airbags for front and rear seats, three-point inertia-reel seatbelts on all seats with belt latch tensioner and belt force limiter at the front seats, crash-active front head restraints, crash sensors, Tyre Pressure Indicator
Steering		Electromechanical rack-and-pinion power steering (EPS) with M specific Servotronic function and variable sport ratios
Steering ratio, overall	:1	14.3
Tyres, front/rear		275/40 ZR19 105Y XL 285/40 ZR19 107Y XL
Rims, front/rear		9.5J x 19 light-alloy 10.5J x 19 light-alloy

BMW M5

Power transfer

M xDrive intelligent all-wheel drive, central transfer case with fully-variable multiplate clutch, fully-variable torque distribution between front and rear axle, differential with fully-variable Active M Differential, locking effect 0 – 100 per cent

Transmission

Type of gearbox	8-speed M Steptronic transmission with Drivelogic, transmission oil cooling		
Gear ratios	I	:1	5.000
	II	:1	3.200
	III	:1	2.143
	IV	:1	1.720
	V	:1	1.313
	VI	:1	1.000
	VII	:1	0.823
	VIII	:1	0.640
	R	:1	3.478
Final drive		:1	3.154

Performance

Power-to-weight ratio (DIN)	kg/kW	4.3
Output per litre	kW/l	100.3
Acceleration 0–100 km/h	s	3.4
Acceleration 0–200 km/h	s	11.1
Top speed	km/h	250 / 305 ²⁾

BMW EfficientDynamics

BMW EfficientDynamics standard features Brake Energy Regeneration, EPS (Electric Power Steering), Auto Start Stop function, Optimum Shift Indicator in manual shift mode, BMW EfficientLightweight, on-demand operation of ancillary units, Lithium-Ion battery map-controlled oil pump, differential and transfer case with optimised warm-up behaviour, aerodynamics (underside panelling, front spoiler, rear spoiler)

Fuel consumption EU cycle

Urban (NEDC)	ltr/100 km	16.9 – 16.8
Extra-urban (NEDC)	ltr/100 km	8.1 – 8.0
Combined (NEDC)	ltr/100 km	11.3 – 11.3
Combined (WLTP)	ltr/100 km	11.3 – 11.1
CO ₂ (NEDC)	g/km	259 – 259
CO ₂ (WLTP)	g/km	259 – 253
Emission rating		Euro 6d

Specifications apply to ACEA markets/data relevant to homologation applies in part only to Germany (weight)

¹⁾ Oil change volume

²⁾ In conjunction with optional M Driver's Package

Fuel consumption, CO₂ emission figures, power consumption and range were measured using the methods required according to Regulation VO (EC) 2007/715 as amended. They refer to vehicles on the automotive market in Germany. With regard to ranges, the NEDC figures take into account differences in the selected wheel and tyre size, while the WLTP figures take into account the effects of any optional equipment.

All figures are already calculated on the basis of the new WLTP test cycle. NEDC values listed have been calculated back to the NEDC measurement procedure where applicable. WLTP values are used as a basis for the assessment of taxes and other vehicle-related levies that are (also) based on CO₂ emissions and, where applicable, for the purposes of vehicle-specific subsidies. Further information on the WLTP and NEDC measurement procedures is also available at www.bmw.com/wltp.

BMW M5. M5 Competition.

BMW M5 Competition		
Body		
No. of doors/seats		4 / 5
Length/width/height (unladen)	mm	4983 / 1903 / 1469
Wheelbase	mm	2982
Track, front/rear	mm	1625 / 1594
Ground clearance	mm	120
Turning circle	m	12.6
Tank capacity	approx. ltr	68
Engine oil ¹⁾	ltr	10.0
Weight, unladen, to DIN/EU	kg	1895 / 1970
Max. load to DIN	kg	545
Max. permissible weight	kg	2440
Max. axle load, front/rear	kg	1215 / 1260
Max. trailer load, braked (12%/unbraked)	kg	2000 / 750
Max. roof load/towbar download	kg	100 / 90
Luggage comp. capacity	ltr	530
Air resistance	C _d x A	0.32 x 2.42
Engine		
Config./No. of cyls./valves		V / 8 / 4
Engine technology		M TwinPower Turbo technology with cross-bank exhaust manifold, M TwinScroll TwinTurbo, indirect charge air cooling, High Precision Injection, maximum injection pressure 350 bar, VALVETRONIC fully variable valve timing, Double-VANOS variable camshaft timing
Effective capacity	cm ³	4395
Stroke/bore	mm	88.3 / 89.0
Compression ratio	:1	10.0
Fuel		RON 98 (min RON 91)
Output	kW/hp	460 / 625
at	rpm	6000
Torque	Nm	750
at	rpm	1800 – 5860
Electrical System		
Battery/Installation	Ah/-	70 (li-ion) / luggage comp.
Driving Dynamics and Safety		
Suspension, front		Adaptive M suspension with double wishbone axle in lightweight aluminium construction, M specific kinematics and elastokinematics
Suspension, rear		Adaptive M suspension with five-link axle in lightweight aluminium construction, M-specific elastokinematics
Brakes, front		M compound brakes, vented, with six-piston fixed callipers
Brakes, rear		M compound brakes, vented, with single-piston floating callipers
Driving stability systems		Standard: DSC incl. ABS, ASC and M Dynamic Mode (MDM), can be switched off, CBC (Cornering Brake Control), DBC (Dynamic Brake Control), Dry Braking function, Start-Off Assistant, Active M Differential, DSC linked with M xDrive allwheel drive
Safety equipment		Standard: airbags for driver and front passenger, side airbags for driver and front passenger, head airbags for front and rear seats, three-point inertia-reel seatbelts on all seats with belt latch tensioner and belt force limiter at the front seats, crash-active front head restraints, crash sensors, Tyre Pressure Indicator
Steering		Electromechanical rack-and-pinion power steering (EPS) with M specific Servotronic function and variable sport ratios
Steering ratio, overall	:1	14.3
Tyres, front/rear		275/35 ZR20 102Y XL 285/35 ZR20 104Y XL
Rims, front/rear		9.5J x 20 light-alloy 10.5J x 20 light-alloy

BMW M5 Competition

Power transfer

M xDrive intelligent all-wheel drive, central transfer case with fully-variable multiplate clutch, fully-variable torque distribution between front and rear axle, differential with fully-variable Active M Differential, locking effect 0 – 100 per cent

Transmission

Type of gearbox	8-speed M Steptronic transmission with Drivelogic, transmission oil cooling		
Gear ratios	I	:1	5.000
	II	:1	3.200
	III	:1	2.143
	IV	:1	1.720
	V	:1	1.313
	VI	:1	1.000
	VII	:1	0.823
	VIII	:1	0.640
	R	:1	3.478
Final drive		:1	3.154

Performance

Power-to-weight ratio (DIN)	kg/kW	4.1
Output per litre	kW/l	104.7
Acceleration 0–100 km/h	s	3.3
Acceleration 0–200 km/h	s	10.8
Top speed	km/h	250 / 305 ²⁾

BMW EfficientDynamics

BMW EfficientDynamics standard features

Brake Energy Regeneration, EPS (Electric Power Steering), Auto Start Stop function, Optimum Shift Indicator in manual shift mode, BMW EfficientLightweight, on-demand operation of ancillary units, Lithium-Ion battery map-controlled oil pump, differential and transfer case with optimised warm-up behaviour, aerodynamics (underside panelling, front spoiler, rear spoiler)

Fuel consumption EU cycle

Urban (NEDC)	ltr/100 km	16.9 – 16.8
Extra-urban (NEDC)	ltr/100 km	8.1 – 8.0
Combined (NEDC)	ltr/100 km	11.3 – 11.3
Combined (WLTP)	ltr/100 km	11.3 – 11.1
CO ₂ (NEDC)	g/km	259 – 259
CO ₂ (WLTP)	g/km	259 – 253
Emission rating		Euro 6d

Specifications apply to ACEA markets/data relevant to homologation applies in part only to Germany (weight)

¹⁾ Oil change volume

²⁾ In conjunction with optional M Driver's Package

Fuel consumption, CO₂ emission figures, power consumption and range were measured using the methods required according to Regulation VO (EC) 2007/715 as amended. They refer to vehicles on the automotive market in Germany. With regard to ranges, the NEDC figures take into account differences in the selected wheel and tyre size, while the WLTP figures take into account the effects of any optional equipment.

All figures are already calculated on the basis of the new WLTP test cycle. NEDC values listed have been calculated back to the NEDC measurement procedure where applicable. WLTP values are used as a basis for the assessment of taxes and other vehicle-related levies that are (also) based on CO₂ emissions and, where applicable, for the purposes of vehicle-specific subsidies. Further information on the WLTP and NEDC measurement procedures is also available at www.bmw.com/wltp.

BMW M5. M5 CS.

BMW M5 CS		
Body		
No. of doors/seats		4 / 5
Length/width/height (unladen)	mm	5001 / 1903 / 1468
Wheelbase	mm	2982
Track, front/rear	mm	1625 / 1594
Ground clearance	mm	119
Turning circle	m	12.6
Tank capacity	approx. ltr	68
Engine oil ¹⁾	ltr	10.0
Weight, unladen, to DIN/EU	kg	1825 / 1900
Max. load to DIN	kg	465
Max. permissible weight	kg	2290
Max. axle load, front/rear	kg	1165 / 1170
Max. trailer load, braked (12%/unbraked)	kg	- / -
Max. roof load/towbar download	kg	- / -
Luggage comp. capacity	ltr	530
Air resistance	C _d x A	0.33 x 2.42
Engine		
Config./No. of cyls./valves		V / 8 / 4
Engine technology		M TwinPower Turbo technology with cross-bank exhaust manifold, M TwinScroll TwinTurbo, indirect charge air cooling, High Precision Injection, maximum injection pressure 350 bar, VALVETRONIC fully variable valve timing, Double-VANOS variable camshaft timing
Effective capacity	cm ³	4395
Stroke/bore	mm	88.3 / 89.0
Compression ratio	:1	10.0
Fuel		RON 98 (min RON 91)
Output	kW/hp	467 / 635
at	rpm	6000
Torque	Nm	750
at	rpm	1800 – 5950
Electrical System		
Battery/Installation	Ah/-	70 (li-ion) / luggage comp.
Driving Dynamics and Safety		
Suspension, front		Adaptive M suspension with double wishbone axle in lightweight aluminium construction, M specific kinematics and elastokinematics
Suspension, rear		Adaptive M suspension with five-link axle in lightweight aluminium construction, M-specific elastokinematics
Brakes, front		M Carbon ceramic brakes, vented, with six-piston fixed callipers
Brakes, rear		M Carbon ceramic brakes, vented, with single-piston floating callipers
Driving stability systems		Standard: DSC incl. ABS, ASC and M Dynamic Mode (MDM), can be switched off, CBC (Cornering Brake Control), DBC (Dynamic Brake Control), Dry Braking function, Start-Off Assistant, Active M Differential, DSC linked with M xDrive allwheel drive
Safety equipment		Standard: airbags for driver and front passenger, side airbags for driver and front passenger, head airbags for front and rear seats, three-point inertia-reel seatbelts on all seats with belt latch tensioner and belt force limiter at the front seats, crash-active front head restraints, crash sensors, Tyre Pressure Indicator
Steering		Electromechanical rack-and-pinion power steering (EPS) with M specific Servotronic function and variable sport ratios
Steering ratio, overall	:1	14.3
Tyres, front/rear		275/35 ZR20 102Y XL 285/35 ZR20 104Y XL
Rims, front/rear		9.5J x 20 light-alloy 10.5J x 20 light-alloy

BMW M5 CS

Power transfer

M xDrive intelligent all-wheel drive, central transfer case with fully-variable multiplate clutch, fully-variable torque distribution between front and rear axle, differential with fully-variable Active M Differential, locking effect 0 – 100 per cent

Transmission

Type of gearbox	8-speed M Steptronic transmission with Drivelogic, transmission oil cooling		
Gear ratios	I	:1	5.000
	II	:1	3.200
	III	:1	2.143
	IV	:1	1.720
	V	:1	1.313
	VI	:1	1.000
	VII	:1	0.823
	VIII	:1	0.640
	R	:1	3.478
Final drive		:1	3.154

Performance

Power-to-weight ratio (DIN)	kg/kW	3.9
Output per litre	kW/l	106.3
Acceleration 0–100 km/h	s	3.0
Acceleration 0–200 km/h	s	10.3
Top speed	km/h	305 ²⁾

BMW EfficientDynamics

BMW EfficientDynamics standard features

Brake Energy Regeneration, EPS (Electric Power Steering), Auto Start Stop function, Optimum Shift Indicator in manual shift mode, BMW EfficientLightweight, on-demand operation of ancillary units, Lithium-Ion battery map-controlled oil pump, differential and transfer case with optimised warm-up behaviour, aerodynamics (underside panelling, front spoiler, rear spoiler)

Fuel consumption EU cycle

Urban (NEDC)	ltr/100 km	16.6
Extra-urban (NEDC)	ltr/100 km	8.1
Combined (NEDC)	ltr/100 km	11.3
Combined (WLTP)	ltr/100 km	11.3
CO ₂ (NEDC)	g/km	258
CO ₂ (WLTP)	g/km	256
Emission rating		Euro 6d

Specifications apply to ACEA markets/data relevant to homologation applies in part only to Germany (weight)

¹⁾ Oil change volume

²⁾ In conjunction with optional M Driver's Package

Fuel consumption, CO₂ emission figures, power consumption and range were measured using the methods required according to Regulation VO (EC) 2007/715 as amended. They refer to vehicles on the automotive market in Germany. With regard to ranges, the NEDC figures take into account differences in the selected wheel and tyre size, while the WLTP figures take into account the effects of any optional equipment.

All figures are already calculated on the basis of the new WLTP test cycle. NEDC values listed have been calculated back to the NEDC measurement procedure where applicable. WLTP values are used as a basis for the assessment of taxes and other vehicle-related levies that are (also) based on CO₂ emissions and, where applicable, for the purposes of vehicle-specific subsidies. Further information on the WLTP and NEDC measurement procedures is also available at www.bmw.com/wltp.